



# **STIC Search Report**

## **Biotech-Chem Library**

**STIC Database Tracking Number: 168656**

**TO: Celine Qian**  
**Location: rem/2A64/2C70**  
**Art Unit: 1636**  
**Wednesday, October 19, 2005**

**Case Serial Number: 09/877935**

**From: Edward Hart**  
**Location: Biotech-Chem Library**  
**REM-1A55**  
**Phone: 571-272-2512**

**edward.hart@uspto.gov**

### **Search Notes**

Examiner Qian,

Here are the results of the search you requested.

Please feel free to contact me if you have any questions.

Edward Hart

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ATTN: Ed Hart

ACCESS DB # 168656  
PLEASE PRINT CLEARLY

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CRFE

Scientific and Technical Information Center  
SEARCH REQUEST FORM

Requester's Full Name: Celine Qian Examining #: 78770 Date: 10/14/05  
Art Unit: 1636 Phone Number: 2-0777 Serial Number: 08/899935  
Location (Bldg/Room#): 2A64 (Mailbox #): 2C70 Results Format Preferred (circle): PAPER DISK  
\*\*\*\*\*

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Regulatory sequences of the mouse villin gene  
Inventors (please provide full names): Pinto et al.

Earliest Priority Date: 10/9/1998

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

*Please search SEQIDNO:1, (interference only.)*

*NA 8995*

*ME*

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OCT 17 2005  
LCH/CHEN, L. (STC)

STAFF USE ONLY

Staff Use Only	Type of Search	Vendors and cost where applicable
Searcher: _____	<input checked="" type="checkbox"/> NA Sequence (#)	_____ STN _____ Dialog
Searcher Phone #: _____	_____ AA Sequence (#)	_____ Questel/Orbit _____ Lexis/Nexis
Searcher Location: _____	_____ Structure (#)	<u>04</u> Westlaw _____ WWW/Internet
Date Searcher Picked Up: <u>10/18/05</u>	_____ Bibliographic	_____ In house sequence systems
Date Completed: _____	_____ Litigation	<input checked="" type="checkbox"/> Commercial _____ Oligomer _____ Score/Length
Searcher Prep & Review Time: _____	_____ Fulltext	<input checked="" type="checkbox"/> Interference _____ SPDI _____ Encode/T-inst
Online Time: _____	_____ Other	_____ Other (specify)

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# STIC SEARCH RESULTS FEEDBACK FORM

## Biotech-Chem Library

Questions about the scope or the results of the search? Contact *the searcher* or contact:

Mary Hale, Information Branch Supervisor  
Remsen Bldg. 01 D86  
571-272-2507

## Voluntary Results Feedback Form

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➤ I am an examiner in Workgroup:  Example: 1610

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC Biotech-Chem Library Remsen Bldg.



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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: October 18, 2005, 08:22:26 ; Search time 1304 Seconds  
(without alignments)  
11287.047 Million cell updates/sec

Title: US-09-877-935-1  
Perfect score: 8995  
Sequence: 1 gatctgtgcaccaaggaga.....ctctaggtctgtccaccatg 8995

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents\_NA.\*  
1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq:\*  
2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq:\*  
3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq:\*  
4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq:\*  
5: /cgn2\_6/ptodata/1/ina/PTUS\_COMB.seq:\*  
6: /cgn2\_6/ptodata/1/ina/backfiles.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	148.8	1.7	7208	US-09-166-186-107	Sequence 107, App
2	148.8	1.7	7208	US-09-313-932-107	Sequence 107, App
3	142.6	1.6	14707	US-09-312-762A-3	Sequence 3, Appli
c 4	140.4	1.6	3481	US-08-965-729A-1	Sequence 1, Appli
5	138.2	1.5	17056	US-09-245-041-3	Sequence 3, Appli
6	138.2	1.5	17056	US-09-358-055B-3	Sequence 3, Appli
7	138.2	1.5	17056	US-09-893-238-3	Sequence 3, Appli
c 8	138	1.5	5973	US-09-245-041-4	Sequence 4, Appli
c 9	138	1.5	5973	US-09-358-055B-4	Sequence 4, Appli
c 10	138	1.5	5973	US-09-893-238-4	Sequence 4, Appli
c 11	136.8	1.5	2509	US-09-319-284-1	Sequence 1, Appli
12	135.4	1.5	90050	US-09-245-041-5	Sequence 5, Appli
13	135.4	1.5	90050	US-09-358-055B-5	Sequence 5, Appli
14	135.4	1.5	90050	US-09-893-238-5	Sequence 5, Appli
c 15	135.2	1.5	4698	US-07-807-043B-5	Sequence 5, Appli
c 16	135.2	1.5	4698	US-08-299-849B-5	Sequence 5, Appli
c 17	135.2	1.5	4698	US-08-142-368A-5	Sequence 5, Appli
c 18	135.2	1.5	4698	US-08-967-727-5	Sequence 5, Appli
c 19	135.2	1.5	4698	US-08-037-230D-5	Sequence 5, Appli
c 20	135.2	1.5	4698	US-09-583-850-5	Sequence 5, Appli
c 21	135.2	1.5	4698	US-09-579-197-5	Sequence 5, Appli
c 22	135.2	1.5	4698	US-09-404-026-5	Sequence 5, Appli
c 23	135.2	1.5	4698	US-09-312-64A-5	Sequence 5, Appli
c 24	134	1.5	6727	US-08-629-643A-5	Sequence 5, Appli
25	134	1.5	6727	US-09-280-799-1	Sequence 1, Appli
26	134	1.5	6727	US-09-155-884-5	Sequence 5, Appli
c 27	133.4	1.5	51259	US-08-781-891-209	Sequence 209, App

c 28	133.4	1.5	51259	4	US-09-618-166-209	Sequence 209, App
29	132.8	1.5	2574	4	US-09-668-313A-10	Sequence 10, Appli
c 30	132.8	1.5	17056	3	US-09-245-041-3	Sequence 3, Appli
c 31	132.8	1.5	17056	4	US-09-358-055B-3	Sequence 3, Appli
c 32	132.8	1.5	17056	4	US-09-893-238-3	Sequence 3, Appli
c 33	132.2	1.5	48974	3	US-08-920-422-17	Sequence 17, Appli
c 34	131.8	1.5	4550	3	US-09-338-907-182	Sequence 182, App
c 35	131.8	1.5	4550	3	US-09-218-207-182	Sequence 182, App
c 36	131.4	1.5	3892	2	US-08-555-723B-3	Sequence 3, Appli
c 37	131.4	1.5	3892	3	US-09-123-465-3	Sequence 3, Appli
c 38	130.8	1.5	90050	3	US-09-245-041-5	Sequence 5, Appli
c 39	130.8	1.5	90050	4	US-09-358-055B-5	Sequence 5, Appli
c 40	130.8	1.5	90050	4	US-09-893-238-5	Sequence 5, Appli
c 41	130.6	1.5	37950	3	US-09-338-907-183	Sequence 183, App
c 42	130.6	1.5	37950	3	US-09-218-207-183	Sequence 183, App
c 43	129.6	1.4	35828	3	US-09-449-218D-17	Sequence 17, Appli
c 44	129.6	1.4	35828	4	US-09-668-529A-17	Sequence 17, Appli
c 45	129.6	1.4	35828	4	US-09-668-037A-17	Sequence 17, Appli

ALIGNMENTS

RESULT 1

US-09-166-186-107  
; Sequence 107, Application US/09166186A  
; Patent No. 6080580  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Brenda  
; APPLICANT: Bennett, C. Frank  
; APPLICANT: Butler, Madeline M.  
; APPLICANT: Shanahan, William R.  
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE MODULATION OF TNF-a EXPRESSION  
; FILE REFERENCE: ISPH-0322  
; CURRENT APPLICATION NUMBER: US/09/166,186A  
; CURRENT FILING DATE: 1998-10-05  
; NUMBER OF SEQ ID NOS: 250  
; SEQ ID NO 107  
; LENGTH: 7208  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (4527..4712,5225..5279,5457..5504,5799..6217)  
; FEATURE:  
; NAME/KEY: exon  
; LOCATION: (4371)..(4712)  
; FEATURE:  
; NAME/KEY: intron  
; LOCATION: (4713)..(5224)  
; FEATURE:  
; NAME/KEY: exon  
; LOCATION: (5225)..(5279)  
; FEATURE:  
; NAME/KEY: intron  
; LOCATION: (5280)..(5456)  
; FEATURE:  
; NAME/KEY: exon  
; LOCATION: (5457)..(5504)  
; FEATURE:  
; NAME/KEY: intron  
; LOCATION: (5505)..(5798)  
; FEATURE:  
; NAME/KEY: exon  
; LOCATION: (5799)..(5972)  
; PUBLICATION INFORMATION:  
; AUTHORS: Semon, D.  
; AUTHORS: Kawashima, E.  
; AUTHORS: Jongeneel, C.V.  
; AUTHORS: Shakhov, A.N.  
; AUTHORS: Nedospasov, S.A.  
; TITLE: Nucleotide sequence of the murine TNF locus, including the  
; TITLE: TNF-alpha (tumor necrosis factor) and TNF-beta (lymphotoxin) genes

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/ JOURNAL: Nucleic Acids Res.
/ VOLUME: 15
/ ISSUE: 21
/ PAGES: 9083-9084
/ DATE: 1987-11-11
/ DATABASE ACCESSION NUMBER: Y00467 Genbank
/ DATABASE ENTRY DATE: 1993-05-11
US-09-166-186-107

Query Match
Best Local Similarity 1.7%; Score 148.8; DB 3; Length 7208;
Matches 162; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 4574 AGAAAAAATGAAGCCAGCAGTGTGGCACACGCTTTATCCAGCAGCTTGGGAGGC 4633
Db 429 AAAAAAAAAAAGCTGGCGAGTGTGGCACACACCTTTATCCAGCAGCTTGGGAGGC 488
QY 4634 AGAAGCAGGCAGATTCTGAGTCAAGCCAGCCTGGTCTATAGAGTGAGTTCCAGGACA 4693
Db 489 AGAGGCAGCGGATTCTGAGTTCTAGGCCAGCTGGTCTACAGAGTGAGTTCCAGGACA 548
QY 4694 GCCAGGCTTACACAGAGAAACCTGTTTGAAAAACCCAGAAAAACAAACAAACAAAC 4753
Db 549 GCCAGGCTTACACAGAGAAACCTGTTCTCGAAAAAGCAAAAAAAGCAAAAAA 608
QY 4754 AAAA 4757
Db 609 AAAA 612

RESULT 2
US-09-313-932-107
/ Sequence 107, Application US/09313932A
/ Patent No. 6228642
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Brenda
/ APPLICANT: Bennett, C. Frank
/ APPLICANT: Butler, Madeline M.
/ APPLICANT: Shanahan, William R.
/ TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE MODULATION OF TNF-
/ FILE REFERENCE: ISPH-0356
/ CURRENT APPLICATION NUMBER: US/09/313,932A
/ CURRENT FILING DATE: 1999-05-18
/ NUMBER OF SEQ ID NOS: 501
/ SEQ ID NO 107
/ LENGTH: 7208
/ TYPE: DNA
/ ORGANISM: Mus musculus
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (4527..4712,5225..5279,5457..5504,5799..6217)
/ FEATURE:
/ NAME/KEY: exon
/ LOCATION: (4371)..(4712)
/ FEATURE:
/ NAME/KEY: intron
/ LOCATION: (4713)..(5224)
/ FEATURE:
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/ LOCATION: (5225)..(5279)
/ FEATURE:
/ NAME/KEY: intron
/ LOCATION: (5280)..(5456)
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/ LOCATION: (5457)..(5504)
/ FEATURE:
/ NAME/KEY: intron
/ LOCATION: (5505)..(5798)
/ FEATURE:
/ NAME/KEY: exon
/ LOCATION: (5799)..(56972)

/ PUBLICATION INFORMATION:
/ AUTHORS: Semon, D.
/ AUTHORS: Kawashima, E.
/ AUTHORS: Jongeneel, C.V.
/ AUTHORS: Shakhov, A.N.
/ AUTHORS: Nedospasov, S.A.
/ TITLE: Nucleotide sequence of the murine TNF locus, including the
/ TITLE: TNF-alpha (tumor necrosis factor) and TNF-beta (lymphotoxin)
/ JOURNAL: Nucleic Acids Res.
/ VOLUME: 15
/ ISSUE: 21
/ PAGES: 9083-9084
/ DATE: 1987-11-11
/ DATABASE ACCESSION NUMBER: Y00467 Genbank
/ DATABASE ENTRY DATE: 1993-05-11
US-09-313-932-107

Query Match
Best Local Similarity 1.7%; Score 148.8; DB 3; Length 7208;
Matches 162; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 4574 AGAAAAAATGAAGCCAGCAGTGTGGCACACGCTTTATCCAGCAGCTTGGGAGGC 4633
Db 429 AAAAAAAAAAAGCTGGCGAGTGTGGCACACACCTTTATCCAGCAGCTTGGGAGGC 488
QY 4634 AGAAGCAGGCAGATTCTGAGTCAAGCCAGCCTGGTCTATAGAGTGAGTTCCAGGACA 4693
Db 489 AGAGGCAGCGGATTCTGAGTTCTAGGCCAGCTGGTCTACAGAGTGAGTTCCAGGACA 548
QY 4694 GCCAGGCTTACACAGAGAAACCTGTTTGAAAAACCCAGAAAAACAAACAAACAAAC 4753
Db 549 GCCAGGCTTACACAGAGAAACCTGTTCTCGAAAAAGCAAAAAAAGCAAAAAA 608
QY 4754 AAAA 4757
Db 609 AAAA 612

RESULT 3
US-09-312-762A-3
/ Sequence 3, Application US/09312762A
/ Patent No. 6552177
/ GENERAL INFORMATION:
/ APPLICANT: MIA HOROWITZ ET AL.
/ TITLE OF INVENTION: EH DOMAIN CONTAINING GENES AND PROTEINS
/ NUMBER OF SEQUENCES: 27
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Mark M. Friedman c/o Anthony Castorina
/ CITY: Arlington
/ STATE: Virginia
/ COUNTRY: United States of America
/ ZIP: 22202
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk
/ COMPUTER: Twinhead* Slimnote-890TX
/ OPERATING SYSTEM: MS DOS version 6.2
/ OPERATING SYSTEM: Windows version 3.11
/ SOFTWARE: Word for Windows version 2.0 converted to
/ SOFTWARE: an ASCII file
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/312,762A
/ FILING DATE:
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 09/026,898
/ FILING DATE: 20 FEB 1998
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Friedman, Mark M.
/ REGISTRATION NUMBER: 33,883
/ REFERENCE/DOCKET NUMBER: 916/10
/ TELECOMMUNICATION INFORMATION:
```



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; TELEPHONE: 972-3-5625553
; TELEFAX: 972-3-5625554
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14707
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
US-09-312-762A-3

Query Match 1.6%; Score 142.6; DB 4; Length 14707;
Best Local Similarity 75.1%; Pred. No. 3.2e-27;
Matches 178; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

Qy 4576 AAAAAAATGAAGCCAGCAGTGGGCGACACGCTTTAAATCCAGCAGCTTTGGGAGGCGAG 4635
Db 12047 AAGAAGTTTAAAGGGGGCGGTGATGGCACAGCCTTTAAATCCAGCAGCTTTGGGAGGCGAG 12106

Qy 4636 AAGCAGGCGAGATTTCTGAGTTCAAGGCCAGCCTGTCTATAGAGTGAGTTCCAGGACAGC 4695
Db 12107 AGCGGGCGGATTTCTGAGTTTCGAGGCCAGCCTGTCTATCAAAAGTGAGTTCCAGGACAGC 12166

Qy 4696 CAGGCTACACAGAGAAACCTGTTTGAAGAAACAGAGAAACCAAAACAAACAAACAA 4755
Db 12167 CAGGCTACACAGAGAAACCTGTTTGAAGAAACCAAAACCAAAACAAAGAAAGAAAG 12226

Qy 4756 AACAAACCCAAACCCAAACCCAAACCTCTCATCTCTCATCTCTCTAGCTGTGTCT 4812
Db 12227 GTTTGAGAGCAAGTGAAGGCCCTCCCTCTCTGCTGCCCTCGACTCAGGTTTGGGTTT 12283

RESULT 4
US-08-965-729A-1/c
; Sequence 1, Application US/08965729A
; Patent No. 6200751
; GENERAL INFORMATION:
; APPLICANT: Jian-Ming Gu and Charles T. Esmon
; TITLE OF INVENTION: ENDOTHELIAL SPECIFIC EXPRESSION
; TITLE OF INVENTION: REGULATED BY EPCR CONTROL ELEMENTS
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Patrea L. Pabst
; STREET: 2800 One Atlantic Center, 1201 West Peachtree Street
; CITY: Atlanta
; STATE: GA
; COUNTRY: USA
; ZIP: 30309-4530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/965.729A
; FILING DATE: 07-NOV-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/030,718
; FILING DATE: 08-NOV-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Pabst, Patrea L.
; REGISTRATION NUMBER: 31,284
; REFERENCE/DOCKET NUMBER: OMRF 164 PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 404-873-8794
; TELEFAX: 404-873-8795
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3481 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: /note= "Nucleotides 2270 through 2840 are a
; OTHER INFORMATION: large endothelial specific element"; murine
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: /note= "Nucleotides 2990 through 3061 are a
; OTHER INFORMATION: serum response element"; murine
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: /note= "Nucleotides 3007 through 3014 are a
; OTHER INFORMATION: thrombin responsive element"; murine
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: /note= "Nucleotides 3130 through 3350 are an
; OTHER INFORMATION: endothelial specific element"; murine
US-08-965-729A-1

Query Match 1.6%; Score 140.4; DB 3; Length 3481;
Best Local Similarity 74.8%; Pred. No. 4.8e-27;
Matches 202; Conservative 0; Mismatches 66; Indels 2; Gaps 2;

Qy 4564 TTTGCTTTTAAAGAAAAATGAAAGCCAGCAGTGGTGGCACACGCTTTTAAATCCAGCA 4623
Db 2563 TTCAACTTTTAAAAAATAAAGCGGCGGTGGTGGCACACGCTTTTAAATCCAGCA 2504

Qy 4624 CTTCGGAGGCGAAGCAGGCGAGATTTCTGAGTTTCAAGGCCAGCCTGTCTATAGAGTGAG 4683
Db 2503 CTTCGGAGGCGAAGCAGGCGAGTTCGAGTTTTCGAGTTTTCGAGGCCAGCTTACAGAGTGAG 2444

Qy 4684 TTCCAGGACAGCCAGGCGTACACAGAGAAACCTGTTTGAAGAAACCCAGAA-AAAAA 4742
Db 2443 -TCCAGGACAGCCAGGCGTACACAGAGAAACCTGTTTGAAGAAACCCAGAA-AAAAA 2385

Qy 4743 CAAACAAACAAACAAACAAACCCAAACCCAAACCCAAACCCAAACCCAAACCCAAACCC 4802
Db 2384 AAAAAACAAACAAACAAACCCAAACCCAAACCCAAACCCAAACCCAAACCCAAACCCAA 2325

Qy 4803 GCGTGTCTGTCTAGGTTGAGAGTTGG 4832
Db 2324 AACAGGTTCTTACTTATCCATATGAGTTGG 2295

RESULT 5
US-09-245-041-3
; Sequence 3, Application US/09245041
; Patent No. 6274339
; GENERAL INFORMATION:
; APPLICANT: Moore, K.
; APPLICANT: Nagle, D.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS AND TREATMENT
; TITLE OF INVENTION: OF BODY WEIGHT DISORDERS INCLUDING OBESITY
; FILE REFERENCE: 7853-136
; CURRENT APPLICATION NUMBER: US/09/245.041
; CURRENT FILING DATE: 1999-02-05
; EARLIER APPLICATION NUMBER: 60/093,630
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: 60/104,978
; EARLIER FILING DATE: 1998-10-20
; NUMBER OF SEQ ID NOS: 131
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 17056
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-245-041-3

Query Match 1.5%; Score 138.2; DB 3; Length 17056;
Best Local Similarity 79.2%; Pred. No. 5.7e-26;
Matches 164; Conservative 0; Mismatches 43; Indels 0; Gaps 0;
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QY 4550 CTATAGACGAGACTTTGTCTTTAAGAAAAAATGAAGCCACGACGAGTGGTGGCACACGC 4609  
Db 10295 CCAACACCCATACAAACCAATTTTAAATAATATTCGAGCGCGGTGGTGGCGCACGC 10354  
QY 4610 CTTTAAATCCAGCAGCTTTGGAGGAGAGAGCAGGAGATTTCTGAGTTCAAGGCCAGCCTG 4669  
Db 10355 CTTTAAATCCAGCAGCTCGGAGAGACAGAGGAGGAGTTCGAGTTTCGAGGCCAGCGTG 10414  
QY 4670 GTCTATAGAGTGGTTCAGGACAGCGGCTACACAGAGAAACCTGTTTGAAGAAC 4729  
Db 10415 GTCTACAGAGTGGTTCAGGACAGCGGCTGCACAGAGAAACCTGTCTCGAAAAAC 10474  
QY 4730 CAGAAAAACAAAAACAAAAACAAA 4756  
Db 10475 CAAAAAATAAAAAAAAAAAAAATA 10501

## RESULT 6

US-09-893-055B-3

; Sequence 3, Application US/09358055B

; Patent No. 6713277

; GENERAL INFORMATION:

; APPLICANT: Moore, K.

; APPLICANT: Nagle, D.L.

; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS AND  
; TITLE OF INVENTION: TREATMENT OF BODY WEIGHT DISORDERS INCLUDING

; FILE REFERENCE: 7853-151

; CURRENT APPLICATION NUMBER: US/09/358,055B

; CURRENT FILING DATE: 1999-07-21

; PRIOR APPLICATION NUMBER: 09/245,041

; PRIOR FILING DATE: 1999-02-05

; NUMBER OF SEQ ID NOS: 153

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 3

; LENGTH: 17056

; TYPE: DNA

; ORGANISM: Mus musculus

US-09-358-055B-3

## Query Match

Best Local Similarity 1.5%; Score 138.2; DB 4; Length 17056;

Matches 164; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

QY 4550 CTATAGACGAGACTTTGTCTTTAAGAAAAAATGAAGCCACGACGAGTGGTGGCACACGC 4609  
Db 10295 CCAACACCCATACAAACCAATTTTAAATAATATTCGAGCGCGGTGGTGGCGCACGC 10354  
QY 4610 CTTTAAATCCAGCAGCTTTGGAGGAGAGAGCAGGAGATTTCTGAGTTCAAGGCCAGCCTG 4669  
Db 10355 CTTTAAATCCAGCAGCTCGGAGAGACAGAGGAGGAGTTCGAGTTTCGAGGCCAGCGTG 10414  
QY 4670 GTCTATAGAGTGGTTCAGGACAGCGGCTACACAGAGAAACCTGTTTGAAGAAC 4729  
Db 10415 GTCTACAGAGTGGTTCAGGACAGCGGCTGCACAGAGAAACCTGTCTCGAAAAAC 10474  
QY 4730 CAGAAAAACAAAAACAAAAACAAA 4756  
Db 10475 CAAAAAATAAAAAAAAAAAAAATA 10501

## RESULT 7

US-09-893-238-3

; Sequence 3, Application US/09893238

; Patent No. 6727348

; GENERAL INFORMATION:

; APPLICANT: Moore, K.

; APPLICANT: Nagle, D.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE TREATMENT AND

; TITLE OF INVENTION: DIAGNOSIS OF BODY WEIGHT DISORDERS, INCLUDING OBESITY

; FILE REFERENCE: 7853-237

; CURRENT APPLICATION NUMBER: US/09/893,238

; CURRENT FILING DATE: 2001-06-27  
; PRIOR APPLICATION NUMBER: 09/245,041  
; PRIOR FILING DATE: 1999-02-05  
; PRIOR APPLICATION NUMBER: 60/093,630  
; PRIOR FILING DATE: 1998-07-21  
; PRIOR APPLICATION NUMBER: 60/104,978  
; PRIOR FILING DATE: 1998-10-20  
; NUMBER OF SEQ ID NOS: 129  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 3  
; LENGTH: 17056  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-893-238-3

## Query Match

Best Local Similarity 1.5%; Score 138.2; DB 4; Length 17056;

Matches 164; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

QY 4550 CTATAGACGAGACTTTGTCTTTAAGAAAAAATGAAGCCACGACGAGTGGTGGCACACGC 4609  
Db 10295 CCAACACCCATACAAACCAATTTTAAATAATATTCGAGCGCGGTGGTGGCGCACGC 10354  
QY 4610 CTTTAAATCCAGCAGCTTTGGAGGAGAGAGCAGGAGATTTCTGAGTTCAAGGCCAGCCTG 4669  
Db 10355 CTTTAAATCCAGCAGCTCGGAGAGACAGAGGAGGAGTTCGAGTTTCGAGGCCAGCGTG 10414  
QY 4670 GTCTATAGAGTGGTTCAGGACAGCGGCTACACAGAGAAACCTGTTTGAAGAAC 4729  
Db 10415 GTCTACAGAGTGGTTCAGGACAGCGGCTGCACAGAGAAACCTGTCTCGAAAAAC 10474  
QY 4730 CAGAAAAACAAAAACAAAAACAAA 4756  
Db 10475 CAAAAAATAAAAAAAAAAAAAATA 10501

## RESULT 8

US-09-245-041-4/c

; Sequence 4, Application US/09245041

; Patent No. 6274339

; GENERAL INFORMATION:

; APPLICANT: Moore, K.

; APPLICANT: Nagle, D.

; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS AND TREATMENT  
; TITLE OF INVENTION: OF BODY WEIGHT DISORDERS INCLUDING OBESITY

; FILE REFERENCE: 7853-136

; CURRENT APPLICATION NUMBER: US/09/245,041

; CURRENT FILING DATE: 1999-02-05

; EARLIER APPLICATION NUMBER: 60/093,630

; EARLIER FILING DATE: 1998-07-21

; EARLIER APPLICATION NUMBER: 60/104,978

; EARLIER FILING DATE: 1998-10-20

; NUMBER OF SEQ ID NOS: 131

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 4

; LENGTH: 5973

; TYPE: DNA

; ORGANISM: Mus musculus

US-09-245-041-4

## Query Match

Best Local Similarity 1.5%; Score 138; DB 3; Length 5973;

Matches 156; Conservative 0; Mismatches 30; Indels 0; Gaps 0;

QY 4572 TAAGAAAAAATGAAGCCACGAGTGGTGGCACACGCCTTAAATCCAGCAGCTGGGAG 4631  
Db 5564 TAAGAAATCTTTAGCTGGTGGTGGCACACACCTTTAATCCAGCATTTGGGAG 5505  
QY 4632 GCAGAGCAGGAGATTTCTGAGTTCAAGGCCAGCCTGCTATAGAGTTCAGTTCCAGGA 4691  
Db 5504 GCAGAGCAGGAGATTTCTGAGTTCCAGGCCAGCCTGGTCTACAGAGTTCAGGA 5445  
QY 4692 CAGCCAGGCTACACAGAGAAACCTGTTTGAAGAACACAGAAAAACAAACAAA 4751

Db 5444 CAGCAGGGCTATACAGAGAAACCTGCTTTGAAAAACCGAAATGAAAAAGAGAAGA 5385  
Qy 4752 ACAAAA 4757  
Db 5384 AGAAGA 5379

## RESULT 9

US-09-358-055B-4/c  
; Sequence 4, Application US/09358055B  
; Patent No. 6713277  
; ORGANISM: Mus musculus  
; GENERAL INFORMATION:  
; APPLICANT: Moore, K.  
; APPLICANT: Nagle, D.L.  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS AND  
; TITLE OF INVENTION: TREATMENT OF BODY WEIGHT DISORDERS INCLUDING  
; TITLE OF INVENTION: OBESITY  
; FILE REFERENCE: 7853-151  
; CURRENT APPLICATION NUMBER: US/09/358,055B  
; CURRENT FILING DATE: 1999-07-21  
; PRIOR APPLICATION NUMBER: 09/245,041  
; PRIOR FILING DATE: 1999-02-05  
; NUMBER OF SEQ ID NOS: 153  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 4  
; LENGTH: 5973  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-358-055B-4

Query Match 1.5%; Score 138; DB 4; Length 5973;  
Best Local Similarity 83.9%; Pred. No. 3.1e-26;  
Matches 156; Conservative 0; Mismatches 30; Indels 0; Gaps 0;  
Qy 4572 TAAGAAAAATGAAAGCCAGCAGTGTGGCACACGCCCTTTAATCCAGCACTTTGGGAG 4631  
Db 5564 TAAGAAAAATCTTTAGGCTGGTGTGGTGGCACACACCTTTAATCCAGCACTTTGGGAG 5505  
Qy 4632 GCAGAAGCAGCAGATTTCTCAGTTCAAGGCCAGCCTGTCTATAGAGTGAAGTCCAGGA 4691  
Db 5504 GCAGAGCAGCAGATTTCTCAGTTCAAGGCCAGCCTGTCTATAGAGTGAAGTCCAGGA 5445  
Qy 4692 CAGCAGGGCTACACAGAGAAACCTGTTTGA AAAACCGA AAAACCGA AAAACCGA 4751  
Db 5444 CAGCAGGGCTATACAGAGAAACCTGTTTGA AAAACCGA AAAACCGA AAAACCGA 5385  
Qy 4752 ACAAAA 4757  
Db 5384 AGAAGA 5379

## RESULT 10

US-09-893-238-4/c  
; Sequence 4, Application US/09893238  
; Patent No. 6727348  
; ORGANISM: Mus musculus  
; GENERAL INFORMATION:  
; APPLICANT: Moore, K.  
; APPLICANT: Nagle, D.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE TREATMENT AND  
; TITLE OF INVENTION: DIAGNOSIS OF BODY WEIGHT DISORDERS, INCLUDING OBESITY  
; FILE REFERENCE: 7853-237  
; CURRENT APPLICATION NUMBER: US/09/893,238  
; CURRENT FILING DATE: 2001-05-27  
; PRIOR APPLICATION NUMBER: 09/245,041  
; PRIOR FILING DATE: 1999-02-05  
; PRIOR APPLICATION NUMBER: 60/093,630  
; PRIOR FILING DATE: 1998-07-21  
; PRIOR APPLICATION NUMBER: 60/104,978  
; PRIOR FILING DATE: 1998-10-20  
; NUMBER OF SEQ ID NOS: 129  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 4

; LENGTH: 5973  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-893-238-4

Query Match 1.5%; Score 138; DB 4; Length 5973;  
Best Local Similarity 83.9%; Pred. No. 3.1e-26;  
Matches 156; Conservative 0; Mismatches 30; Indels 0; Gaps 0;  
Qy 4572 TAAGAAAAATGAAAGCCAGCAGTGTGGCACACGCCCTTTAATCCAGCACTTTGGGAG 4631  
Db 5564 TAAGAAAAATCTTTAGGCTGGTGTGGTGGCACACACCTTTAATCCAGCACTTTGGGAG 5505  
Qy 4632 GCAGAAGCAGCAGATTTCTCAGTTCAAGGCCAGCCTGTCTATAGAGTGAAGTCCAGGA 4691  
Db 5504 GCAGAGCAGCAGATTTCTCAGTTCAAGGCCAGCCTGTCTATAGAGTGAAGTCCAGGA 5445  
Qy 4692 CAGCAGGGCTACACAGAGAAACCTGTTTGA AAAACCGA AAAACCGA AAAACCGA 4751  
Db 5444 CAGCAGGGCTATACAGAGAAACCTGTTTGA AAAACCGA AAAACCGA AAAACCGA 5385  
Qy 4752 ACAAAA 4757  
Db 5384 AGAAGA 5379

## RESULT 11

US-09-319-284-1/c  
; Sequence 1, Application US/09319284A  
; Patent No. 6524815  
; GENERAL INFORMATION:  
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE-CEA  
; APPLICANT: HUBER, Philippe  
; APPLICANT: LAURENT, Monique  
; APPLICANT: GORY, Sylvie  
; TITLE OF INVENTION: VE CADHERIN PROMOTER AND ITS USES  
; FILE REFERENCE: 45636-5020-US  
; CURRENT APPLICATION NUMBER: US/09/319,284A  
; CURRENT FILING DATE: 1999-08-27  
; EARLIER APPLICATION NUMBER: PCT/FR97/02178  
; EARLIER FILING DATE: 1997-12-02  
; EARLIER APPLICATION NUMBER: FR 9614801  
; EARLIER FILING DATE: 1996-12-03  
; NUMBER OF SEQ ID NOS: 3  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 2509  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-319-284-1

Query Match 1.5%; Score 136.8; DB 4; Length 2509;  
Best Local Similarity 87.2%; Pred. No. 3.6e-26;  
Matches 150; Conservative 0; Mismatches 22; Indels 0; Gaps 0;  
Qy 4590 CCAGCAGTGTGGCACACGCCCTTTAATCCAGCACTTTGGGAGGAGGAGGAGGAGGATTT 4649  
Db 1657 CCAGGCGTGTGGCGCACGCCCTTTAATCCAGCACTCGGAGGAGGAGGAGGAGGATTT 1598  
Qy 4650 CTGAGTTCAAGGCGAGCCTGTCTATAGAGTGAAGTCCAGGACAGCCAGGCTTACAGA 4709  
Db 1597 CTGAGTTCCAGGCGAGCCTGTCTATAGAGTGTCTTCCAGGATAGCCAGGCTATACAGA 1538  
Qy 4710 GAACCCCTGTTTGA AAAACCGA AAAACCGA AAAACCGA AAAACCGA 4761  
Db 1537 GAACCCCTGTTTGA AAAACCGA AAAACCGA AAAACCGA AAAACCGA 1486

## RESULT 12

US-09-245-041-5  
; Sequence 5, Application US/09245041  
; Patent No. 6274339  
; GENERAL INFORMATION:





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GenCore version 5.1.6  
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Run on: October 18, 2005, 08:22:27 ; Search time 5397 Seconds  
(without alignments)

11685.034 Million cell updates/sec

Title: US-09-877-935-1

Perfect score: 8995

Sequence: 1 gatctgtgaccacgaagaca.....ctctaggctgcaccatg 8995

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Gapop 10.0 , Gapext 1.0

Searched: 8766186 seqs, 3505510206 residues

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Maximum Match 100%

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Database : Published Applications NA:\*

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- 10: /cgn2\_6/ptodata/1/pubpna/US09B\_PUBCOMB.seq.\*
- 11: /cgn2\_6/ptodata/1/pubpna/US09C\_PUBCOMB.seq.\*
- 12: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq.\*
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- 16: /cgn2\_6/ptodata/1/pubpna/US10D\_PUBCOMB.seq.\*
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- 21: /cgn2\_6/ptodata/1/pubpna/US10I\_PUBCOMB.seq.\*
- 22: /cgn2\_6/ptodata/1/pubpna/US10I\_NEW\_PUB.seq.\*
- 23: /cgn2\_6/ptodata/1/pubpna/US11A\_PUBCOMB.seq.\*
- 24: /cgn2\_6/ptodata/1/pubpna/US11\_NEW\_PUB.seq.\*
- 25: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq.\*
- 26: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	8995	100.0	8995	9	US-09-877-935-1
c	2	170.4	1.9	493631	13 US-10-087-192-205
	3	166.6	1.9	63502	13 US-10-087-192-271
c	4	165	1.8	33488	17 US-10-085-117-235
c	5	164	1.8	31632	17 US-10-034-650-1
	6	161.4	1.8	21781	19 US-10-322-696-25
	7	161.4	1.8	54648	17 US-10-085-117-289

c	8	161	1.8	111836	19	US-10-322-281-51	Sequence 51, Appl
	9	158.8	1.8	27383	19	US-10-322-696-133	Sequence 133, App
	10	158	1.8	26345	13	US-10-087-192-1705	Sequence 1705, Ap
c	11	157.6	1.8	193853	13	US-10-087-192-1663	Sequence 1663, Ap
c	12	156.2	1.7	33329	19	US-10-322-281-817	Sequence 817, App
	13	156	1.7	24495	19	US-10-367-094-142	Sequence 142, App
	14	155.6	1.7	31400	13	US-10-087-192-907	Sequence 907, App
	15	155	1.7	94381	11	US-09-997-722-31	Sequence 31, Appl
c	16	154.6	1.7	154504	17	US-10-322-696-67	Sequence 67, Appl
c	17	154.4	1.7	29222	19	US-10-085-117-349	Sequence 349, App
c	18	153.4	1.7	96389	18	US-10-052-482-181	Sequence 181, App
c	19	153	1.7	72821	21	US-10-461-862-149	Sequence 149, App
	20	152.8	1.7	247461	19	US-10-322-281-131	Sequence 131, App
	21	152.4	1.7	197775	13	US-10-087-192-853	Sequence 853, App
	22	152.2	1.7	170279	19	US-10-388-838-1	Sequence 1, Appli
	23	152.2	1.7	215980	10	US-09-972-546-16	Sequence 16, Appl
	24	152.2	1.7	215980	21	US-10-735-256-16	Sequence 16, Appl
c	25	151.2	1.7	122859	13	US-10-087-192-37	Sequence 37, Appl
c	26	151	1.7	46677	13	US-10-087-192-943	Sequence 943, App
	27	151	1.7	116585	13	US-10-087-192-133	Sequence 133, App
	28	150.6	1.7	1445	17	US-10-461-093-17	Sequence 17, Appl
	29	150.4	1.7	53828	19	US-10-322-281-369	Sequence 369, App
c	30	150	1.7	34200	13	US-10-087-192-1507	Sequence 1507, Ap
c	31	150	1.7	49914	19	US-10-322-281-299	Sequence 299, App
	32	150	1.7	53158	13	US-10-087-192-1963	Sequence 1963, Ap
c	33	149.8	1.7	23861	17	US-10-085-117-301	Sequence 301, App
c	34	149.8	1.7	49088	13	US-10-087-192-13	Sequence 13, Appl
c	35	149.8	1.7	61791	19	US-10-322-281-645	Sequence 645, App
c	36	149.8	1.7	263852	20	US-10-812-232-6	Sequence 6, Appl1
	37	149.6	1.7	224112	19	US-10-367-094-80	Sequence 80, Appl
c	38	149.2	1.7	820	20	US-10-425-115-182345	Sequence 182345,
c	39	149.2	1.7	33468	11	US-09-997-722-283	Sequence 283, App
c	40	149	1.7	29956	11	US-09-997-722-229	Sequence 229, App
c	41	149	1.7	44990	18	US-10-052-482-217	Sequence 217, App
c	42	149	1.7	83888	13	US-10-087-192-541	Sequence 541, App
c	43	149	1.7	84252	19	US-10-322-281-563	Sequence 563, App
c	44	149	1.7	158405	14	US-10-175-523-86	Sequence 86, Appl
	45	149	1.7	158405	24	US-11-099-266-86	Sequence 86, Appl

ALIGNMENTS

RESULT 1  
US-09-877-935-1  
; Sequence 1, Application US/09877935  
; Patent No. US20020102705A1  
; GENERAL INFORMATION:  
; APPLICANT: Pinto, Daniel  
; APPLICANT: Robine, Sylvie  
; APPLICANT: Jaisser, Frederic  
; APPLICANT: Louvard, Daniel  
; TITLE OF INVENTION: REGULATORY SEQUENCES OF THE MOUSE VILLIN GENE - USE IN TRANSGENES  
; FILE REFERENCE: 13294-002001  
; CURRENT APPLICATION NUMBER: US/09/877,935  
; CURRENT FILING DATE: 2001-06-08  
; PRIOR FILING DATE: 1998-12-09  
; NUMBER OF SEQ ID NOS: 20  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 8995  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; FEATURE:  
; NAME/KEY: intron  
; LOCATION: (3489)..(8981)  
; NAME/KEY: exon  
; LOCATION: (3443)..(3487)  
; OTHER INFORMATION: exon 1  
US-09-877-935-1

Query Match 100.0%; Score 8995; DB 9; Length 8995;

Best Local Similarity 100.0%; Pred. No. 0;			
Matches 8995; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
QY	1	GATCTGGTGCACCAAGGACACTGTGGTCCACAGCACTGGGGAGGTGGAGGGAGGGTCA	60
Db	1	GATCTGGTGCACCAAGGACACTGTGGTCCACAGCACTGGGGAGGTGGAGGGAGGGTCA	60
QY	61	GAAGTTTAAAGGTCACTCTTTGGTTACATAGCAAGGTTTCAGCCAGCTTCAGCTACATGAAA	120
Db	61	GAAGTTTAAAGGTCACTCTTTGGTTACATAGCAAGGTTTCAGCCAGCTTCAGCTACATGAAA	120
QY	121	CTTTCTGTTTGTGTTGTTGTTGTTTAAAGCAATTAATAAATACCATAGGAGGTGG	180
Db	121	CTTTCTGTTTGTGTTGTTGTTTAAAGCAATTAATAAATACCATAGGAGGTGG	180
QY	181	CAGTGGTGGCAGACACCTTTAAATCCAGTATTTCCAGAGGCGAGAGGCGAGACTCTGT	240
Db	181	CAGTGGTGGCAGACACCTTTAAATCCAGTATTTCCAGAGGCGAGAGGCGAGACTCTCTGT	240
QY	241	GAGTTGGAAGTCAGCTAGTCTGCAAGCTAGTTCCAGGATGGCAAGGGCTACACAGAGA	300
Db	241	GAGTTGGAAGTCAGCTAGTCTGCAAGCTAGTTCCAGGATGGCAAGGGCTACACAGAGA	300
QY	301	AACTCTGTCTCATATAAACCAGAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAG	360
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QY	361	GTCCATTCCAGATGAGGATGACCTATTAAGATGATTTCTTTGACCCAGGTAAGCTAAATGCA	420
Db	361	GTCCATTCCAGATGAGGATGACCTATTAAGATGATTTCTTTGACCCAGGTAAGCTAAATGCA	420
QY	421	TGGGAAAGGGGATGGGACTGTCTCTAGATTAAAAAGTCTGAGCGATGCTATTTCTCAA	480
Db	421	TGGGAAAGGGGATGGGACTGTCTCTAGATTAAAAAGTCTGAGCGATGCTATTTCTCAA	480
QY	481	TTTGATTCATATGAAGAAGGCTGATAAGCCCAAGAGAGAGTGGAACCTGGGACTCTGGACT	540
Db	481	TTTGATTCATATGAAGAAGGCTGATAAGCCCAAGAGAGAGTGGAACCTGGGACTCTGGACT	540
QY	541	GAAGACGTGACGGCTTATAAACACTGGCACTTATAAACACTTATAAACACTGGCAGG	600
Db	541	GAAGACGTGACGGCTTATAAACACTGGCACTTATAAACACTTATAAACACTGGCAGG	600
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Db	601	CGTTTCAGGTTTGAAGATCACTTTCAAACCAAGAGAGTGTCTCGCTCGTCTCAGC	660
QY	661	GTACGGAGCACTGGCTGCAGAGAGTGATATTTAGTGAAGAGTGTCTCGCTCGTCTCAGC	720
Db	661	GTACGGAGCACTGGCTGCAGAGAGTGATATTTAGTGAAGAGTGTCTCGCTCGTCTCAGC	720
QY	721	GCACTTATCATACACGTGTCAAATGTGCTTAACCTTATAAACACTTATAAACACTGGCTGTACA	780
Db	721	GCACTTATCATACACGTGTCAAATGTGCTTAACCTTATAAACACTTATAAACACTGGCTGTACA	780
QY	781	CTCGTTTCTGCTTTCCCATCTGGTTGACATTTGTGCAAGACCAAGAAATTTAGAAATTTGGGT	840
Db	781	CTCGTTTCTGCTTTCCCATCTGGTTGACATTTGTGCAAGACCAAGAAATTTAGAAATTTGGGT	840
QY	841	ATTTTATTTGTGTGTGAGGACACCATCCAGGGCTTTTTCATTTCCAGGCACATGGTTTAC	900
Db	841	ATTTTATTTGTGTGTGAGGACACCATCCAGGGCTTTTTCATTTCCAGGCACATGGTTTAC	900
QY	901	TAACTGGGCTACTTCTCCAAAGGTTTGAACCATTGTTTATTTACTTTATTTTGTGT	960
Db	901	TAACTGGGCTACTTCTCCAAAGGTTTGAACCATTGTTTATTTACTTTATTTTGTGT	960
QY	961	GCATGAGGTAGGATGATACGTATGTATAGGAGTCAATGATGCTGCTACCTCAAA	1020
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Db	1021	ATCATTCAGATCCCCAGCAAGTGAAGTCAACCGAGGCTTGTAAAGTTGTTATGTGGAGCTG	1080

Db	1021	ATCATTCAGATCCCCAGCAAGTGAAGTCAACCGAGGCTTGTAAAGTTGTTATGTGGAGCTG	1080
QY	1081	GGAGCCAAAGGCTGGGTTCTCTGCAAGAGCAGCCAGTGGCTTAAACCATGGGACAGCTCT	1140
Db	1081	GGAGCCAAAGGCTGGGTTCTCTGCAAGAGCAGCCAGTGGCTTAAACCATGGGACAGCTCT	1140
QY	1141	CTAGGCTTAAGGTAATCTTTAGTTTAAAAAATATATATTCACAGCCGGGTGTGTGGC	1200
Db	1141	CTAGGCTTAAGGTAATCTTTTAGTTTAAAAAATATATATTCACAGCCGGGTGTGTGGC	1200
QY	1201	ACAGGCTTTAAATCCAGCACTTTGAGAGGCTGAGGTGTAGGAATATATACACAGGCCAG	1260
Db	1201	ACAGGCTTTAAATCCAGCACTTTGAGAGGCTGAGGTGTAGGAATATATACACAGGCCAG	1260
QY	1261	CTGGGTGCAGAGCTTTGGCCCTGTTTTTTTTTTTTTTTCTTTATGTGTGCACTGGTGTCTTA	1320
Db	1261	CTGGGTGCAGAGCTTTGGCCCTGTTTTTTTTTTTTTTTCTTTATGTGTGCACTGGTGTCTTA	1320
QY	1321	CCTGCGTGTATGTCGCTGCAAGGCTGAGATCCCTTGGAGCTGGAGTTAAAGACAGTTG	1380
Db	1321	CCTGCGTGTATGTCGCTGCAAGGCTGAGATCCCTTGGAGCTGGAGTTAAAGACAGTTG	1380
QY	1381	TGATCACTGCTGCGTTTACAGATGCTGGAATTTGAACCCAGGTTGCCCTAGAGAGCAGCC	1440
Db	1381	TGATCACTGCTGCGTTTACAGATGCTGGAATTTGAACCCAGGTTGCCCTAGAGAGCAGCC	1440
QY	1441	AGTGCTTTAACTTCTGAGCCACCCCTCCAAACCTGCTTTTAGAGACTTTAAACCTTTG	1500
Db	1441	AGTGCTTTAACTTCTGAGCCACCCCTCCAAACCTGCTTTTAGAGACTTTAAACCTTTG	1500
QY	1501	TGTAATGTGGGAACTGAGTGGATCTTGCACTTTACCAAGTGTGTGGCTGTAGCATCA	1560
Db	1501	TGTAATGTGGGAACTGAGTGGATCTTGCACTTTACCAAGTGTGTGGCTGTAGCATCA	1560
QY	1561	CTGAGCCGCTACCCACACGACTAGTGGATACAGTTTAAAGGCAACACACTTAAACATGACA	1620
Db	1561	CTGAGCCGCTACCCACACGACTAGTGGATACAGTTTAAAGGCAACACACTTAAACATGACA	1620
QY	1621	ATAGTTGGATAGAGTTTGAATATAGTCTGAGCTATTTGGTTAGCGTGACCTTTGCTGTC	1680
Db	1621	ATAGTTGGATAGAGTTTGAATATAGTCTGAGCTATTTGGTTAGCGTGACCTTTGCTGTC	1680
QY	1681	TTAGCATGTCTGTGAGAGATAGAAAAATGAAGACTTTGAGTCTAGTCTGGAACCCACA	1740
Db	1681	TTAGCATGTCTGTGAGAGATAGAAAAATGAAGACTTTGAGTCTAGTCTGGAACCCACA	1740
QY	1741	GAGGAGGCGAGAACCCCACTCTCTGAAAGTTGTTCTCTGAGCTTTCACATACAACTTCACAT	1800
Db	1741	GAGGAGGCGAGAACCCCACTCTCTGAAAGTTGTTCTCTGAGCTTTCACATACAACTTCACAT	1800
QY	1801	AATAGTTTAAATGAATTAATTAATTTAGTAAATTTCTTTTAAAGGTTATATGTTGGAGGGA	1860
Db	1801	AATAGTTTAAATGAATTAATTAATTTAGTAAATTTCTTTTAAAGGTTATATGTTGGAGGGA	1860
QY	1861	GAGATGGCTCAGCTTCCAGGAGCACTTCTGCTCTCTGAGAGGACCTAGATTTCAGTTCCC	1920
Db	1861	GAGATGGCTCAGCTTCCAGGAGCACTTCTGCTCTCTGAGAGGACCTAGATTTCAGTTCCC	1920
QY	1921	AGGACTCATATGTTGGCTCAGGCACTCTGTAATTCAGTTTCCAGAGGTTTCCACACCT	1980
Db	1921	AGGACTCATATGTTGGCTCAGGCACTCTGTAATTCAGTTTCCAGAGGTTTCCACACCT	1980
QY	1981	CTTCTGGCTCCACAGGCAACACATACATAGTACACAGACATACATGCAGGCAAAACACC	2040
Db	1981	CTTCTGGCTCCACAGGCAACACATACATAGTACACAGACATACATGCAGGCAAAACACC	2040
QY	2041	CATACACATATAAATAAGGAACTTAAAGGTGCATGTGTTGTTAAACATTTGTGCT	2100
Db	2041	CATACACATATAAATAAGGAACTTAAAGGTGCATGTGTTGTTAAACATTTGTGCT	2100
QY	2101	TACACATGCTGATTGAAGACATGTACACCGCACACACTGAAGAGGATCTGGGCTGGAG	2160
Db	2101	TACACATGCTGATTGAAGACATGTACACCGCACACACTGAAGAGGATCTGGGCTGGAG	2160



Qy	2161	AGATGGCTCAGCGTTAAGAGCACTGACTGCTCTTCGAAAGGAAAGGTCCTCAGTTCAAAAT	2220
Db	2161	AGATGGCTCAGCGTTAAGAGCACTGACTGCTCTTCGAAAGGAAAGGTCCTCAGTTCAAAAT	2220
Qy	2221	CCTAGCAACACATGGTGGCTCACAACCATCCATAATGAGATCTGACACCCCTCTCTGGT	2280
Db	2221	CCTAGCAACACATGGTGGCTCACAACCATCCATAATGAGATCTGACACCCCTCTCTGGT	2280
Qy	2281	GCATCTGAAGACAGCTGCAGAGCTACAGTGTACTTAGATATACTAAATAAAATCTTTT	2340
Db	2281	GCATCTGAAGACAGCTGCAGAGCTACAGTGTACTTAGATATACTAAATAAAATCTTTT	2340
Qy	2341	TTTAAAAAATGAAGAGGATCTGAGACACCTCAAAAGAGATTTAGACAGTGTACACG	2400
Db	2341	TTTAAAAAATGAAGAGGATCTGAGACACCTCAAAAGAGATTTAGACAGTGTACACG	2400
Qy	2401	GGTCAATATCTATCCTCGAGTTTTCTTTCCGCTTGGCTTGGCACTGGGTGGACAGC	2460
Db	2401	GGTCAATATCTATCCTCGAGTTTTCTTTCCGCTTGGCTTGGCACTGGGTGGACAGC	2460
Qy	2461	CCCCCTTTTCATTCACAAACGGGTGCTACATTTATTTCTGAACAAAACAGCACCTGCAGT	2520
Db	2461	CCCCCTTTTCATTCACAAACGGGTGCTACATTTATTTCTGAACAAAACAGCACCTGCAGT	2520
Qy	2521	ATGTTTACTGTCCTTGCTGACTATGAGCAGCGGCAACGCGCGGCGGCGCACACACACAC	2580
Db	2521	ATGTTTACTGTCCTTGCTGACTATGAGCAGCGGCAACGCGCGGCGGCGCACACACACAC	2580
Qy	2581	ACACACACACACACACACACACACATTCAGTCTCCAGAGCTCTTGGGAAGTCA	2640
Db	2581	ACACACACACACACACACACACACATTCAGTCTCCAGAGCTCTTGGGAAGTCA	2640
Qy	2641	AGAGAGGCTGCCCTCAAAACAGATCTTTCATCTTTCCCTCTTAAAGGAGACACAGATTCC	2700
Db	2641	AGAGAGGCTGCCCTCAAAACAGATCTTTCATCTTTCCCTCTTAAAGGAGACACAGATTCC	2700
Qy	2701	AAGTGGCAGAAAGATCTACAGGGGCGAGAGCAGGGAGGGGAAACAGGCCCATGGTTTCC	2760
Db	2701	AAGTGGCAGAAAGATCTACAGGGGCGAGAGCAGGGAGGGGAAACAGGCCCATGGTTTCC	2760
Qy	2761	AGAGACCTACAGCAGAGGCGAAGCAGATCCCCAGGTCAGGGCAGGAGGTGGAGG	2820
Db	2761	AGAGACCTACAGCAGAGGCGAAGCAGATCCCCAGGTCAGGGCAGGAGGTGGAGG	2820
Qy	2821	CCCTTTGTTCCAGGAGAGGCGAGCGGCGAGAACAGGGTTCAAAGSCACAGGTTTATGGCA	2880
Db	2821	CCCTTTGTTCCAGGAGAGGCGAGCGGCGAGAACAGGGTTCAAAGSCACAGGTTTATGGCA	2880
Qy	2881	GCTCATAAAAGTGGAGTCTGGGCTCACTCAGAAAGGAGGAAAGGGAAGGCCCTTGT	2940
Db	2881	GCTCATAAAAGTGGAGTCTGGGCTCACTCAGAAAGGAGGAAAGGGAAGGCCCTTGT	2940
Qy	2941	CCCCACTCAGCAGGAGGTCTATCTGAGTAGGAGAGATCTGAGGGGTGCGAGGCCCCAC	3000
Db	2941	CCCCACTCAGCAGGAGGTCTATCTGAGTAGGAGAGATCTGAGGGGTGCGAGGCCCCAC	3000
Qy	3001	CTGTCTGTCCCAAGGGAACCCCAAGTGTGAATCTGGGCTTTGGGTGCTGAGTTCAGCTA	3060
Db	3001	CTGTCTGTCCCAAGGGAACCCCAAGTGTGAATCTGGGCTTTGGGTGCTGAGTTCAGCTA	3060
Qy	3061	CAAGACCCCAGGAGTCTTACTCCATCCCATCCAGTGGCCCTCGCCCGCCGACACGCCA	3120
Db	3061	CAAGACCCCAGGAGTCTTACTCCATCCCATCCAGTGGCCCTCGCCCGCCGACACGCCA	3120
Qy	3121	CCCCGACTCCGTCGCCATCTCTAGGGCTGGAGGGTGGCCAGCCCTGGTGGGGTTGC	3180
Db	3121	CCCCGACTCCGTCGCCATCTCTAGGGCTGGAGGGTGGCCAGCCCTGGTGGGGTTGC	3180
Qy	3181	CTACTCAGGTAGAGCCAGGTCCTAGCGGAAGTGACCCCATCCCTGAGCTGCAGA	3240
Db	3181	CTACTCAGGTAGAGCCAGGTCCTAGCGGAAGTGACCCCATCCCTGAGCTGCAGA	3240

Qy	3241	GCCAAAGGCGGGGCAACAGGAGCTCAGGCTGTGTCAGGCTGTGCTGGGCTCTAGGTTCCC	3300
Db	3241	GCCAAAGGCGGGGCAACAGGAGCTCAGGCTGTGTCAGGCTGTGCTGGGCTCTAGGTTCCC	3300
Qy	3301	AGGACCTGGGCACTTCTTCCACCCCATCCATTCATTCCTGGGGCCCTATCTTCC	3360
Db	3301	AGGACCTGGGCACTTCTTCCACCCCATCCATTCATTCCTGGGGCCCTATCTTCC	3360
Qy	3361	CTTATATGGTGAAGAAAGTTCTCGGGGGGGGGTGGTGGTGAAGCAAAAGGTCGTTCCG	3420
Db	3361	CTTATATGGTGAAGAAAGTTCTCGGGGGGGGGTGGTGGTGAAGCAAAAGGTCGTTCCG	3420
Qy	3421	GTCTCTGCAGCAGCTTGCCACAACCTCTTAAAGATCTCCAGGTGGTGGCTCTCTTC	3480
Db	3421	GTCTCTGCAGCAGCTTGCCACAACCTCTTAAAGATCTCCAGGTGGTGGCTCTCTTC	3480
Qy	3481	CAGACAGTAAAGCAATTTGGTGGGACACATGGTGAAGAGTGGTGGAGGGGACAG	3540
Db	3481	CAGACAGTAAAGCAATTTGGTGGGACACATGGTGAAGAGTGGTGGAGGGGACAG	3540
Qy	3541	GGTCTTGTCTCTCTGGCAGCCTGTCTTCTGTAGCACCTTGGTATAAGTTTGGGG	3600
Db	3541	GGTCTTGTCTCTCTGGCAGCCTGTCTTCTGTAGCACCTTGGTATAAGTTTGGGG	3600
Qy	3601	TGAGTAAAGTGTCTGAAACTCTGAAAGAGCAAGAGCCAGCAGGCTGTCTGGGCT	3660
Db	3601	TGAGTAAAGTGTCTGAAACTCTGAAAGAGCAAGAGCCAGCAGGCTGTCTGGGCT	3660
Qy	3661	TCAATGAAGAAAGTTCACAGACCCCTTCTCTGTAAGTCACTTTCGCTTCTGTTAG	3720
Db	3661	TCAATGAAGAAAGTTCACAGACCCCTTCTCTGTAAGTCACTTTCGCTTCTGTTAG	3720
Qy	3721	ATTCCCTGGGACCAAGGTGGCTCTGGGACTTCAGATTCTACAATTAATAATCAGGACAGT	3780
Db	3721	ATTCCCTGGGACCAAGGTGGCTCTGGGACTTCAGATTCTACAATTAATAATCAGGACAGT	3780
Qy	3781	CCTGAGACTTGGACTCCGTGCTGTTACTACTTCTCTGCTGCTGCTCAITTTCTGTGT	3840
Db	3781	CCTGAGACTTGGACTCCGTGCTGTTACTACTTCTCTGCTGCTGCTCAITTTCTGTGT	3840
Qy	3841	TCATGCTTACACATCTGAAATGGTTCTTTGTTGTCACCATTTCCCTGACACTCTCTGGGA	3900
Db	3841	TCATGCTTACACATCTGAAATGGTTCTTTGTTGTCACCATTTCCCTGACACTCTCTGGGA	3900
Qy	3901	GGTCTGATCTCTTGGCAGATGTATCTCGGATGTAAAGCTGCAGCCACCAAGGAGGGGG	3960
Db	3901	GGTCTGATCTCTTGGCAGATGTATCTCGGATGTAAAGCTGCAGCCACCAAGGAGGGGG	3960
Qy	3961	AGAGTCAAGGAGCTGTGCTTAGGGCCCTATTAGGCTTGGACATCACCCCTTTCTAGAAAT	4020
Db	3961	AGAGTCAAGGAGCTGTGCTTAGGGCCCTATTAGGCTTGGACATCACCCCTTTCTAGAAAT	4020
Qy	4021	GGCCCTCCATTTTCCGTTACCATGATCTATTATTATATCAGAGTGGGAGTGAAGCCA	4080
Db	4021	GGCCCTCCATTTTCCGTTACCATGATCTATTATTATATCAGAGTGGGAGTGAAGCCA	4080
Qy	4081	AACCTGCCCCAGAAAGTTTGGGACTCACTCAGACCAAGGTTATCTGCTCAGAAATCCCCCTG	4140
Db	4081	AACCTGCCCCAGAAAGTTTGGGACTCACTCAGACCAAGGTTATCTGCTCAGAAATCCCCCTG	4140
Qy	4141	TCACTTGAAGTTGGAGAAATCTGCTCTGGGGGCTTCCAGGCTTTGGTTAGCAGAGGGT	4200
Db	4141	TCACTTGAAGTTGGAGAAATCTGCTCTGGGGGCTTCCAGGCTTTGGTTAGCAGAGGGT	4200
Qy	4201	ATCCTTTGTATAGGCGATGACCTAGTCTATCGTGTACTACATTCCTCTCAGTTTAAAG	4260
Db	4201	ATCCTTTGTATAGGCGATGACCTAGTCTATCGTGTACTACATTCCTCTCAGTTTAAAG	4260
Qy	4261	CTGAACTTAAACCCACGCGCAGCCAGGATTTCTTACAGTTGTACCCCAAGAACACA	4320
Db	4261	CTGAACTTAAACCCACGCGCAGCCAGGATTTCTTACAGTTGTACCCCAAGAACACA	4320
Qy	4321	AGACAGTAGATATGCAAGGATAGGTAGCTGGGGAGAGAGAACTTAAACCCCTCCAAAG	4380

Db 4321 AGACAGTAGATATGCAAGGATAGGTAGCTGGGAGAGAGAACTTTAAACCCCCCAAG 4380  
QY GCCACAGGTTCCGTTCCCTAGTTCAAAATGCCAGTATGAGTGTAGCTACTATCGGCTG 4440  
Db GCCACAGGTTCCGTTCCCTAGTTTCAAAATGCCAGTATGAGTGTAGCTACTATCGGCTG 4440  
QY TGAGTTTGGTAGCTACAAGCATGAGTGATGTTTCATGTTGTTAGTGTGTATTAATCTGAGCAC 4500  
Db TGAGTTTGGTAGCTACAAGCATGAGTGATGTTTCATGTTGTTAGTGTGTATTAATCTGAGCAC 4500  
QY TTGGGAGGCTGAAGCAGGAGGATGCTATATGTTTTCAGGCCAGCTGAGCTATAGAGCGA 4560  
Db TTGGGAGGCTGAAGCAGGAGGATGCTATATGTTTTCAGGCCAGCTGAGCTATAGAGCGA 4560  
QY GACTTTGTCTTTAAGAAAAAATGAAGCCCAAGCAGTGGTGGCACACGCCCTTTAATCCCA 4620  
Db GACTTTGTCTTTAAGAAAAAATGAAGCCCAAGCAGTGGTGGCACACGCCCTTTAATCCCA 4620  
QY GCACTTTGGGAGGCAGAGCAGCAGATTTCTGAGTTCAAGGCCAGCTGGTCTATAGAGT 4680  
Db GCACTTTGGGAGGCAGAGCAGCAGATTTCTGAGTTCAAGGCCAGCTGGTCTATAGAGT 4680  
QY GAGTTCAGGACAGCCAGGCTTACACAGAGAAACCCCTGTTTGAAAAACCCAGAAAAACA 4740  
Db GAGTTCAGGACAGCCAGGCTTACACAGAGAAACCCCTGTTTGAAAAACCCAGAAAAACA 4740  
QY PACAAAAACAACAAAAAACCMAACCCMAACCCMAACCCCTCTCATCTCTCTCTC 4800  
Db AACAAAAACAACAAAAAACCMAACCCMAACCCMAACCCCTCTCATCTCTCTCTC 4800  
QY TAGGCTGTCTCTAGTGTGTAGAGTTTCGAGTTTCGAGACTTCAGACTTATATTAATAGGCC 4860  
Db TAGGCTGTCTCTAGTGTGTAGAGTTTCGAGTTTCGAGACTTCAGACTTATATTAATAGGCC 4860  
QY TTTTATCACTGGTCAGAGACAGAAAGTTTCAGTCTGGACACAGTGGGACCCCTGAGA 4920  
Db TTTTATCACTGGTCAGAGACAGAAAGTTTCAGTCTGGACACAGTGGGACCCCTGAGA 4920  
QY AAGTACTCCTTGGCAGCCCAAAAATTCCTGGAGAGCTTCCTGGAGGAAGTGTGTCCGAT 4980  
Db AAGTACTCCTTGGCAGCCCAAAAATTCCTGGAGAGCTTCCTGGAGGAAGTGTGTCCGAT 4980  
QY CAGACTACTGTTCTAGAGGCAGAAAGAGGTTTGGAGAAATGTTGGTGACACAGATT 5040  
Db CAGACTACTGTTCTAGAGGCAGAAAGAGGTTTGGAGAAATGTTGGTGACACAGATT 5040  
QY GGAACAGAGACACAGGAGGGGAGGCATCCAGATTCTGAAACATGTAGCTGACTTTTGGT 5100  
Db GGAACAGAGACACAGGAGGGGAGGCATCCAAAGATTCTGAACATGTAGCTGACTTTTGGT 5100  
QY TCTCTGGGTGACAAAGTGTCCCCAGGGATAGGGCTGTAGAAAGGGACACAGGGGTGAGCC 5160  
Db TCTCTGGGTGACAAAGTGTCCCCAGGGATAGGGCTGTAGAAAGGGACACAGGGGTGAGCC 5160  
QY AATCAGTTCAAGTTGAGGACACATCCAGCCAGGTCCTTGTGCGCAAGCTAAAGAAATG 5220  
Db AATCAGTTCAAGTTGAGGACACATCCAGCCAGGTCCTTGTGCGCAAGCTAAAGAAATG 5220  
QY AGAGCCCTCTAAACCCCTCTGAAGTTTTCAGGGAGACAGGAGAGCTGAGGAGTCTCTA 5280  
Db AGAGCCCTCTAAACCCCTCTGAAGTTTTCAGGGAGACAGGAGAGCTGAGGAGTCTCTA 5280  
QY GGTGAAGAGAGATGTTCTCTGACCAACATGGCTTAGGAGCAGAGCAGTTGGACCCAG 5340  
Db GGTGAAGAGAGATGTTCTCTGACCAACATGGCTTAGGAGCAGAGCAGTTGGACCCAG 5340  
QY TTAACCCCTCAGAACCCAGCATCCCTCTGGCTCTAAGGAGGCTGGGCCCTTTCTGTTT 5400  
Db TTAACCCCTCAGAACCCAGCATCCCTCTGGCTCTAAGGAGGCTGGGCCCTTTCTGTTT 5400  
QY AAGAACTTACTTTTCTCAGAGAGGACGCAAGCCTTTGTCCCTCCCTCTGTGGTCAA 5460  
Db AAGAACTTACTTTTCTCAGAGAGGACGCAAGCCTTTGTCCCTCCCTCTGTGGTCAA 5460

Db 5401 AAGAATCTTACTTTTCTTCAGAGAGGCGACGAAGCCTTTGTCCCCTCCCTGTGGTCAA 5460  
QY TAAACACCCCTGTGTGTAAACATTAGTTTATTTTACTGTCTAGTTTGTCTCCAGGACAGTCCA 5520  
Db TAAACACCCCTGTGTGTAAACATTAGTTTATTTTACTGTCTAGTTTGTCTCCAGGACAGTCCA 5520  
QY TCTGGTAGAGCTCTGTCTTAACTCACCAGGATGGCCACACATTCTCACCAGAGAG 5580  
Db TCTGGTAGAGCTCTGTCTTAACTCACCAGGATGGCCACACATTCTCACCAGAGAG 5580  
QY TGCAGAAAGAGAGCCTTAGAGAAAGGGTAAACAGTAACAAAGATGCCAGAGATAAACA 5640  
Db TGCAGAAAGAGAGCCTTAGAGAAAGGGTAAACAGTAACAAAGATGCCAGAGATAAACA 5640  
QY ACTACTATCTCTTTGTATCCCAAAATTTGTTTGTCTGTAACAGAGAGGGGTGTGAGTGTAT 5700  
Db ACTACTATCTCTTTGTATCCCAAAATTTGTTTGTCTGTAACAGAGAGGGGTGTGAGTGTAT 5700  
QY GT 5760  
Db GT 5760  
QY CTTGGGGGACTTTTCATGCTAAAGAAATATCTGTATTTGGCGCCCATGCCAAACAGGGGTAT 5820  
Db CTTGGGGGACTTTTCATGCTAAAGAAATATCTGTATTTGGCGCCCATGCCAAACAGGGGTAT 5820  
QY TGGGAGAGTCAAGGCTTCTGCAAAACACAGTAAGCTGCCCAAGATGGATGGTGGCTGAA 5880  
Db TGGGAGAGTCAAGGCTTCTGCAAAACACAGTAAGCTGCCCAAGATGGATGGTGGCTGAA 5880  
QY TCACCAAGGGGAGGCTGTATCAGAGTGGACAGAAATCAACAGATAAGCCCTCTGGG 5940  
Db TCACCAAGGGGAGGCTGTATCAGAGTGGACAGAAATCAACAGATAAGCCCTCTGGG 5940  
QY GCTCAGAGAGGAGTTTACAGAGGTAAGGCCCAAGCCATTTATTTCCAAAGACATGAC 6000  
Db GCTCAGAGAGGAGTTTACAGAGGTAAGGCCCAAGCCATTTATTTCCAAAGACATGAC 6000  
QY TCAAAATCAAAGTCAAGGAGAGATTAGCTGGAGAGATGGGGCTGTCTAGTGTGGACACC 6060  
Db TCAAAATCAAAGTCAAGGAGAGATTAGCTGGAGAGATGGGGCTGTCTAGTGTGGACACC 6060  
QY TGACCTTCACCTTATTTAGTCACTAGGCCAAGAGCAGTCAAGAGGGTGAATGGGTCTTA 6120  
Db TGACCTTCACCTTATTTAGTCACTAGGCCAAGAGCAGTCAAGAGGGTGAATGGGTCTTA 6120  
QY CTCAGCTTTGGAGCAGGCACGTGGAGAAATGGGTGACCTCCATCTCTGATGAGAGGGCTGAG 6180  
Db CTCAGCTTTGGAGCAGGCACGTGGAGAAATGGGTGACCTCCATCTCTGATGAGAGGGCTGAG 6180  
QY CACCAACAGGTAACAAGTGTTCCTGTGTCTCATGCCAGGATTCCTGGCCAGTTTTCAAAG 6240  
Db CACCAACAGGTAACAAGTGTTCCTGTGTCTCATGCCAGGATTCCTGGCCAGTTTTCAAAG 6240  
QY GACTAAGGACTCATCTCTGTGTGGAAAAACAAAGTATCCAGCCCTAAGCCCAATTTGGTCT 6300  
Db GACTAAGGACTCATCTCTGTGTGGAAAAACAAAGTATCCAGCCCTAAGCCCAATTTGGTCT 6300  
QY AATTAATACAAAACCCCTGGGGATGCGAGGCTCTGAGCAGCAGGAGCTTTTTTAAAGCTC 6360  
Db AATTAATACAAAACCCCTGGGGATGCGAGGCTCTGAGCAGCAGGAGCTTTTTTAAAGCTC 6360  
QY CCAGTGATTTCTGATCAGCAGCTGGAACAAACACAGCTACAGGTTCAACAGAAAGAGGC 6420  
Db CCAGTGATTTCTGATCAGCAGCTGGAACAAACACAGCTACAGGTTCAACAGAAAGAGGC 6420  
QY AAAAGCTAGGAAAGCTTTGGATGGGAGCCTTTCTCCAGGCCAGTAGATGGAGGCTGTT 6480  
Db AAAAGCTAGGAAAGCTTTGGATGGGAGCCTTTCTCCAGGCCAGTAGATGGAGGCTGTT 6480  
QY AGCAGTGGTGGCAGCTTCTCTCTGCTGTCTATATAGTATCCATCCACTCATCCATCCAT 6540  
Db AGCAGTGGTGGCAGCTTCTCTCTGCTGTCTATATAGTATCCATCCACTCATCCATCCAT 6540



Db 8701 AACCAGGCTGTATAGACACACAGCATAGCTGCATATATAGCAAGACCTTTTCAAAA 8760  
 QY 8761 ACATGAGGAGGGGTATGTTTAAAGTGTGGGCTGTGTAAACAGGCACCTAAGGGAGCCAA 8820  
 Db 8761 ACATGAGGAGGGGTATGTTTAAAGTGTGGGCTGTGTAAACAGGCACCTAAGGGAGCCAA 8820  
 QY 8821 TGTAGACATTTGACTAAGAAAGGATCATCATAAAGCCGGGTGGCAGGGTAGAGTTGG 8880  
 Db 8821 TGTAGACATTTGACTAAGAAAGGATCATCATAAAGCCGGGTGGCAGGGTAGAGTTGG 8880  
 QY 8881 ACTACAGTGGTCAAGACCCCATAGGAAGCCAGTTTCCCTTCTTCTCTGGGCTCAAGC 8940  
 Db 8881 ACTACAGTGGTCAAGACCCCATAGGAAGCCAGTTTCCCTTCTTCTCTGGGCTCAAGC 8940  
 QY 8941 CTGGCTCGAGGGCCATGCTCTCACATGCTTCTCTAGGCTCGTCCACCATG 8995  
 Db 8941 CTGGCTCGAGGGCCATGCTCTCACATGCTTCTCTAGGCTCGTCCACCATG 8995

## RESULT 2

US-10-087-192-205/C

; Sequence 205, Application US/10087192

; Publication No. US20020182586A1

; GENERAL INFORMATION:

; APPLICANT: Morris, David W.

; APPLICANT: Engelhard, Eric K.

; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR

; FILE REFERENCE: 529452000122

; CURRENT APPLICATION NUMBER: US/10/087,192

; CURRENT FILING DATE: 2002-03-01

; PRIOR APPLICATION NUMBER: US 09/747,377

; PRIOR FILING DATE: 2000-12-22

; PRIOR APPLICATION NUMBER: US 09/798,586

; PRIOR FILING DATE: 2001-03-02

; NUMBER OF SEQ ID NOS: 2059

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 205

; LENGTH: 493631

; TYPE: DNA

; ORGANISM: Mus musculus

; FEATURE:

; NAME/KEY: misc\_feature

; LOCATION: (1)..(493631)

; OTHER INFORMATION: n = A,T,C or G

US-10-087-192-205

## Query Match

Best Local Similarity 1.9%; Score 170.4; DB 13; Length 493631;

Matches 394; Conservative 0; Mismatches 181; Indels 45; Gaps 7;

QY 1833 TCTTTTAAAGGTATATGTTGGAGGGAGAGATGGCTCAGCTCCAGGACCTTGTGTC 1892  
 Db 28991 TCTTTACACAAATACTAGAGACTGGAGGATAGCTCAGAGTCAAGACACTGACTGC 28932  
 QY 1893 TCTTGCAGAGACCTAGATTGCTTCCAGGACTCATATGTTGGCTCACAGCCATCTGTA 1952  
 Db 28931 TCTTCTAGAGACCTGGTGGATTCCCATATATGCTGCTCACAACTGCTGTA 28872  
 QY 1953 AATCCAGTTCCAGAGGGTCCACACCCCTTCTTG- GCCTCCAGAGGCCACATATAG 2011  
 Db 28871 ACTCCAGTTTAAAGATCGAATGCTCTCTTCTGAGGCCCCAGGGGCTGCACACAT 28812  
 QY 2012 TACACA-GACATACATGAGGCAAAACAC-CCATACACATATAAATAAGGAACTT 2069  
 Db 28811 GACATAGACACATGTAGAAAAAACACATAAATAAGATTAATCACTCTGTAGACCA 28752  
 QY 2070 ABAAGGTGCATGTTGTTAAACATTTGCTTACATGCTGTTAAAGACATGTAAC 2129  
 Db 28751 GACTGGCTCGAAGTCAAGAAATCACTGCTTCCAGTGTCTGGGATTAAGGC 28692  
 QY 2130 GCACAC-----ACTGAAGAGGGATCTGGGGCTGGAGA 2161

Db 28691 GTGGCCACCACCTGCTCAGCTTAAAGATTCTCTTAAGACAGTAATGACGGGCTGGAGA 28632  
 QY 2162 GATGGCTCAGGGTTAAGACACTGACTGCTCTTCCGAAGAAAGGCTCTGAGTTCAAATC 2221  
 Db 28631 GATGGCTCAGTGGTTAAGACACCGACTGCTCTTCC-----GAAGATCCTGAGTTCAAATC 28576  
 QY 2222 CTAGCAACCATGCTGGTGGCTCAACACCATCCATAAATGAGATCTGACACCCCTCTCTGGTG 2281  
 Db 28575 CCAGCAACCATGCTGGTAGCTCAACACCATCCATAAATGAGATCTGACCGCCCTCTCTGGTG 28516  
 QY 2282 CATCTGAAGACACGCTCAGAGCTACAGTGTACTTGTAGATATCTAATAAATAAATCTTT--T 2339  
 Db 28515 TGTCTGAAGAC-----AGTTACAGTGTACTTAGATATAATAAATAAATCTTAA 28464  
 QY 2340 TTTTAAAAAATCAAGAGGGATCTGAGACACCTCAAAAGAGATTATGAGCAGTACTCAC 2399  
 Db 28463 AAAAAAATAAAGAACAGTAATGACGATGATGATGATAAAGAGTCTTGTCTGTACTCAA 28404  
 QY 2400 GGTGATTATCTATCCTGGA 2419  
 Db 28403 CTGAATAATTTCTTAGGGA 28384

## RESULT 3

US-10-087-192-271

; Sequence 271, Application US/10087192

; Publication No. US20020182586A1

; GENERAL INFORMATION:

; APPLICANT: Morris, David W.

; APPLICANT: Engelhard, Eric K.

; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR

; FILE REFERENCE: 529452000122

; CURRENT APPLICATION NUMBER: US/10/087,192

; CURRENT FILING DATE: 2002-03-01

; PRIOR APPLICATION NUMBER: US 09/747,377

; PRIOR FILING DATE: 2000-12-22

; PRIOR APPLICATION NUMBER: US 09/798,586

; PRIOR FILING DATE: 2001-03-02

; NUMBER OF SEQ ID NOS: 2059

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 271

; LENGTH: 63502

; TYPE: DNA

; ORGANISM: Mus musculus

; FEATURE:

; NAME/KEY: misc\_feature

; LOCATION: (1)..(63502)

; OTHER INFORMATION: n = A,T,C or G

US-10-087-192-271

## Query Match

Best Local Similarity 1.9%; Score 166.6; DB 13; Length 63502;

Matches 330; Conservative 0; Mismatches 169; Indels 12; Gaps 5;

QY 1857 GGGAGAGTGGCTCAGCTTCCAGGAGCATTGCTGCTTTCAGAGGACCTTAGATTAGT 1916  
 Db 2258 GAGAGAGAGAGAGACTCTCAGTGGTTAAGAGCTGCTATTGGGAGGACCTTGGTTCGGT 2317  
 QY 1917 TCCAGGAGCTCATATGGTGGCTCAGGCCATCTGTAATCCAGTTCAGAGGGTTCCACA 1976  
 Db 2318 TCCTAGCACCTTACATGG-GGTTCAATCATCCCTTACTCCAGTTCCTAT-GGGATCAGCT 2375  
 QY 1977 CCCTTCTTGGCTTCCAGGCAC-----CACATACATAGTACACAGACATACATGCAGGC 2032  
 Db 2376 AGCCCTTCTGACCTCTGCGGACCTATGTCATACATGCTGTCATACATACATGTAAGC 2435  
 QY 2033 AAAACACCCATACACACATAAATAAAGGAACTTAAAGGTCATGCTGTTGTTAAAC 2092  
 Db 2436 AAAACACATGAAGAAATGATACATCTGTGTAATCTTTAAAGTCATTAAT--TTAA 2493  
 QY 2093 ATTGTCTTACATGCTGATTGAAGACATGTACAACGCACACTGAAGAGGATCTGG 2152

Db 2494 AGTATCCAAATCAATCTTTATGGATCTTTTGGTATCTCAAGTGAAGAAATCAATTTGG 2553  
Qy 2153 GGCTGGAGAGATGCTCAGCGGTTAAGAGCACTGACTGCTCTCCGAAGGAGGTCCCTGA 2212  
Db 2554 GGCTGGAGAGATGCTCAGCGGTTAAGAGCACTGACTGCTCTCCAG-----AGGTCA 2609  
Qy 2213 GTTCAAATCTTAGCAACACATGCTGGCTCAACACCATCCATAATGAGATCTGACACCT 2272  
Db 2610 GTTCAAATCTTAGCAACACATGCTGGCTCAACACCATCTGTAATGGATCTGATGCCCT 2669  
Qy 2273 CTTCGTGGATCTCAAGACAGCTGCAGAGCTACAGTGTACTTATAGATATAATAATA 2332  
Db 2670 CTTCGTGGTATCTGCAGACAGCTACAGTGTATTCATCATGTATATATAATAATAATA 2729  
Qy 2333 AATCTTTTTTAAATAAATGAAGGGATCT 2363  
Db 2730 CAATCTTTTAAAGAAAGAAAGAAAGCAATTT 2760

## RESULT 4

US-10-085-117-235/c

; Sequence 235, Application US/10085117

; Publication No. US2003023234A1

; GENERAL INFORMATION:

; APPLICANT: Morris, David W.

; APPLICANT: Engelhard, Eric K.

; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR CANCER

; FILE REFERENCE: 529452000121

; CURRENT APPLICATION NUMBER: US/10/085,117

; CURRENT FILING DATE: 2002-02-27

; PRIOR APPLICATION NUMBER: US 09/798,586

; PRIOR FILING DATE: 2001-03-02

; NUMBER OF SEQ ID NOS: 361

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 235

; LENGTH: 33488

; TYPE: DNA

; ORGANISM: Mus musculus

; FEATURE:

; NAME/KEY: variation

; LOCATION: (1)...(33488)

; OTHER INFORMATION: n = any nucleotide

US-10-085-117-235

Query Match 1.8%; Score 165; DB 17; Length 33488;  
Best Local Similarity 81.5%; Pred. No. 6.6e-34;  
Matches 216; Conservative 0; Mismatches 45; Indels 4; Gaps 2;  
Qy 4497 GCATTTGGAGGCTGAAGCAGAGGATTTGCTATATGTTTGGCCAGGCTGAGCTATAGA 4556  
Db 6269 GCTCTGTGAGGCTGAAGCAGAGAAAT---CATGAGTCCAGGCCACCCCTGGGCTACTTA 6213  
Qy 4557 GCGAGACTTCTCTTTAAGAAAAATG- AAAGCCACAGCTGGTGGCACAGCCCTTTAA 4615  
Db 6212 GTGAGACCTGGTCTTAAAAAAGCTGGGCTGTGGTAGCACACACCTTTAA 6153  
Qy 4616 TCCAGCACTTTGGGAGGAGCAGGAGGATTTCTGAGTTCAAGCCAGCCTGCTCTAT 4675  
Db 6152 TCCAGCACTTTGGAGCAGGAGGCGGATTTCTGAGTTGAGCCAGCCTGCTCTAC 6093  
Qy 4676 AGAGTGAGTTCAGACAGCCAGGCTACACAGAGAAACCCCTGTTTGAAGAACAGAAA 4735  
Db 6092 AGAGTGAGTTCAGACAGCCAGGCTACACAGAGAAACCCCTGTTCTCGAAAAAACA 6033  
Qy 4736 AACAAAAACAAAAACAAACAA 4760  
Db 6032 AAAAAACAAACAAAAA 6008

## RESULT 5

US-10-034-650-1/c

; Sequence 1, Application US/10034650

; Publication No. US20030216558A1  
; GENERAL INFORMATION:  
; APPLICANT: Morris, David  
; APPLICANT: Engelhard, Eric  
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR  
; TITLE OF INVENTION: CANCER  
; FILE REFERENCE: 529452000128  
; CURRENT APPLICATION NUMBER: US/10/034,650  
; CURRENT FILING DATE: 2002-07-23  
; PRIOR APPLICATION NUMBER: US 09/474,377  
; PRIOR FILING DATE: 1999-12-29  
; PRIOR APPLICATION NUMBER: US 09/798,586  
; PRIOR FILING DATE: 2001-03-02  
; NUMBER OF SEQ ID NOS: 61  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 31632  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-10-034-650-1

Query Match 1.8%; Score 164; DB 17; Length 31632;  
Best Local Similarity 77.4%; Pred. No. 1.2e-33;  
Matches 212; Conservative 0; Mismatches 60; Indels 2; Gaps 1;  
Qy 4485 TGTATAATCTGAGCACTTGGGAGGCTGAAGCAGGAGGATTCGTATATCTTTGAGGCCAGC 4544  
Db 20513 TGGGAATCTCAACATTCAGAAAGCTGGGAGGTTGGCTGCCATGAGTTTCAGGCCAGC 20454  
Qy 4545 CTGAGCTATAGAGCGAGACTTTGTCTTTTAAAGAAAAATGAAGCCAGCAGTGGTGCA 4604  
Db 20453 CTGGCGTATAGTTTGAGACCCCTGTTTAAAAATGACAA--CCAGCCGGGAGTGGTGCA 20396  
Qy 4605 CACGCTTTAATCCAGCACTTTGGGAGGCGAGAGCAGGAGGATTTCTGAGTTCAAGGCCA 4664  
Db 20395 TACACCTTTAATCCAGCACTCGGAGGCGAGAGGAGGATTTCTGAGTTCGAGGCCA 20336  
Qy 4665 GCCTGCTCTAGAGTGTAGTTCAGGAGCAGGCTTCCAGGAGCAGGCTTACACAGAGAAACCTGTTTGA 4724  
Db 20335 GCCTGGTCTCAAAAGTGTAGTTCAGGAGCAGGCTTACAGAGGCTTATACAGAGAACTCTGTCTA 20276  
Qy 4725 AAAACACAGAAAAACAAAAACAAAAACAAAAAC 4758  
Db 20275 AAACTGAAAGAGAAAAA 20242

## RESULT 6

US-10-322-696-25  
; Sequence 25, Application US/10322696  
; Publication No. US20040168490A1  
; GENERAL INFORMATION:  
; APPLICANT: Morris, David W.  
; APPLICANT: Malandro, Marc  
; TITLE OF INVENTION: NOVEL THERAPEUTIC TARGETS IN CANCER  
; FILE REFERENCE: 529452001200  
; CURRENT APPLICATION NUMBER: US/10/322,696  
; CURRENT FILING DATE: 2003-10-17  
; NUMBER OF SEQ ID NOS: 186  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 25  
; LENGTH: 21781  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-10-322-696-25

Query Match 1.8%; Score 161.4; DB 19; Length 21781;  
Best Local Similarity 81.0%; Pred. No. 5.2e-33;  
Matches 200; Conservative 0; Mismatches 46; Indels 1; Gaps 1;  
Qy 4516 AGGAGGATTTGCTATATGTTTGGAGCCAGCCTGAGCTATAGACGAGACTTTGTTCTTAAG 4575  
Db 4520 AGATGGATCTCTGTGAGTTCAAGCACCCAGAGCTACACAGTGAAGCCCTGTC-TCAAG 4578

Qy	4576	AAAAAATGAAGCCACGACGTGTGGCACACGCCTTTAATCCAGACATTTGGAGGCAG	4635
Db	4579	AAGCGAAACAAAGCCGGGCGTGTGGCGCACGCCTTTAATCCAGACATTTGGAGGCAG	4638
Qy	4636	AAGCAGGCAGATTCTCGAGTTCAGAGCCAGCCTGGTCTATAGATGAGTTCCTCAGGACGC	4695
Db	4639	AGGCAGGGCGATTTCTGAGTTCAGAGCCAGCCTGGTCTACATAGTGAAGTTCCTCAGGACGC	4698
Qy	4696	CAGGGCTACACAGAGAAACCTGTTTGAATAAACACGAAAAACAAACAAACAAACAAACAA	4755
Db	4699	CAGGGCTATACAGAGAAACCTGTCTCAAAAAACAAACAAACAAACAAACAAACAAACAA	4758
Qy	4756	ACAAAA	4762
Db	4759	CCCAAAA	4765

```

RESULT 7
US-10-085-117-289
; Sequence 289, Application US10085117
; Publication No. US2003023234A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Engelhard, Eric K.
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR CANCER
; FILE REFERENCE: 529452000121
; CURRENT APPLICATION NUMBER: US/10/085,117
; CURRENT FILING DATE: 2002-02-27
; PRIOR APPLICATION NUMBER: US 09/798,586
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 289
; LENGTH: 54648
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: variation
; LOCATION: (1)..(54648)
; OTHER INFORMATION: n = any nucleotide
US-10-085-117-289

```

Query Match	1.8%;	Score 161.4;	DB 17;	Length 54648;
Best Local Similarity	79.7%;	Pred. No. 9.2e-33;		
Matches 216;	Conservative 0;	Mismatches 51;	Indels 4;	Gaps 2;
QY	4500	CTTGGAGGCTGAAGCAGAGAGATTGCTATATGTTTGAGGCCAGCCTGAGCTATAGCG	4559	
Db	20809	CCTGAGAAGGATAAGGAAGAAATGCATTGAGTTTGAGGCCAGGCTGGACTATATAAA	20868	
QY	4560	AGACTTTTGTCTTTAAGAAAAAATGAAACCCAGCAGTGGTGGCACAGCCTTTAATGCC	4619	
Db	20869	ACTAAGTAAATTAAACAAACACA---AAAGCGGGCAGTGTGGCGCAGCCTTTAATGCC	20925	
QY	4620	AGCACTTGGGAGCGAAGCAGCGCAGATTCTGAGTTTCAAGGCCAGCCTGCTCTATAG	4679	
Db	20926	AGCACTTGGAGCGCAGCGCAGCGGATTTCTGAGTTTCAAGGCCAGCCTGGTCTACAG	20985	
QY	4680	TGAGTTTCCAGGACAGCCAGGGGCTACACAGAGAAAAACCTGTTTGTAAAAACACAGA-AAAAC	4738	
Db	20986	TGAGTTTCCAGGACAGCCAGGGGCTACACAGAGAAAAACCTGTCTCGATAAACCAACCAAAC	21045	
QY	4739	AAAAACAAACAAACAAACAAACCCCAAAAC	4769	
Db	21046	CAAAACCAACCAACCAACCAACCAACCAACCC	21076	

RESULT 8  
US-10-322-281-51/c  
; Sequence 51, Application US/10322281  
; Publication No. US20040126762A1  
; GENERAL INFORMATION:  
; APPLICANT: David W. Morris

```

; APPLICANT: Marc S. Malandro
; TITLE OF INVENTION: Novel Compositions and Methods in Cancer
; FILE REFERENCE: 529452001000
; CURRENT APPLICATION NUMBER: US/10/322,281
; CURRENT FILING DATE: 2002-12-17
; NUMBER OF SEQ ID NOS: 866
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 51
; LENGTH: 111836
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(111836)
; OTHER INFORMATION: n = A,T,C or G
US-10-322-281-51

```

Query Match	1.8%;	Score 161;	DB 19;	Length 111836;
Best Local Similarity	66.7%;	Pred. No. 1.9e-32;		
Matches 321;	Conservative 0;	Mismatches 100;	Indels 60;	Gaps 4;
QY	1857	GGGAGAGATGGCTCAGCTTCCAGGAGCACTTGCCTCTCTTGAGAGGACCTAGATTCACT	1916	
Db	56644	GGGACTAGGCTTCAGGGGTTAAAGCACTGGTGTCTCTCTCAGGACCTGAGTTGGT	56585	
QY	1917	TCCAGGACTCATATGGTGGCTCACAGCCATCTGTAAATCCAGTTCAGAGGTTCCACA	1976	
Db	56584	TCCAGCACCCATACGGGGGCTCACACTGTCTATACTCCAGTTCTTGGAGATCCACA	56595	
QY	1977	CCCTCTTTGGCTCCACAGGACCACATACATAGTATACAGACATACATGACGGCAAAA	2036	
Db	56524	CCCTCTTCTGACTCCATCGACATCAGGAGTGTGGTGTGCATATACAGCAGC-AAA	56466	
QY	2037	CACCCATACACATATAATTAATAGGAACCTTAAAGGTGCATGTGTTGGTAAACATTTG	2096	
Db	56465	CAGTCATACATATCAATATAAAACAAATCAGAAAGAAAGG-	56497	
QY	2097	TGCTTACACATGCTGATTGAAGACATGTACAAAGCAGCACACTGMAAGGGGATCTGGGGCT	2156	
Db	56426	-----AAGGAAGGAAGGAAGGAAGAGAGGGGGCT	56393	
QY	2157	GGAGAGATGGCTCAGGGTTAAGAGCACTGACTGTCTTCCGAAGGAAGTCTTGAGTTC	2216	
Db	56392	GGAGAGATGGCTCAGGGGTTAAGAGCACTGACTGTCTTCC- - - - -AAAGGTCCTGAGTTC	56337	
QY	2217	AAATCCTAGCAACACATGGTGGCTCACACCATCCATAATGAGATCTGACACCTCTTTC	2276	
Db	56336	AAATTAACAGCAACCCATAGTGGCTCCAAACCATTCATAAATGAGATCTGCACACCTCTTC	56277	
QY	2277	TGGTGCATCTGAAGACAGCTGCAGAGCTACAGTGTACTTATGATATACATAAATAAATC	2336	
Db	56276	TGGTGCATCTGAAGTC- - - - -AGCTACAGTGTACTTAGTATATAAATAAATAATC	56225	
QY	2337	T 2337		
Db	56224	T 56224		

```

RESULT 9
US-10-322-696-133
; Sequence 133, Application US/10322696
; Publication No. US20040166490A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Malandro, Marc
; TITLE OF INVENTION: NOVEL THERAPEUTIC TARGETS IN CANCER
; FILE REFERENCE: 529452001200
; CURRENT APPLICATION NUMBER: US/10/322,696
; CURRENT FILING DATE: 2003-10-17
; NUMBER OF SEQ ID NOS: 186
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 133
; LENGTH: 27383
;

```





Query March	1.7%;	Score 156.2;	DB 19;	Length 93329;
Best Local Similarity	78.0%;	Pred. No. 3.8e-31;		
Matches 188;	Conservative 0;	Mismatches 53;	Indels 0;	Gaps 0;
QY 4547	GAGCTATAGAGCGAGACTTTGTCTTTAAGAAAAAATGAAGCCGACAGTGGTGGCACA	4606		
Db 32422	GAATAATATACAAAATAATTTATATAGATATAACAAGCCGGGTGTTGGCGCA	32363		
QY 4607	CGCTTTTAATCCAGACACTTGGGAGGCGAAGCAGGCGAGATTCTTGAGTTCAAGGCCAGC	4666		
Db 32362	CGCTTTTAATCCAGACACTTGGGAGGCGAAGCAGGCGAGATTCTTGAGTTCAAGGCCAGC	32303		
QY 4667	CTGGTCTATAGATGTAGTTTCCAGGACAGCCAGGGCTACACAGAGAAACCTCTGTTTGAAA	4726		
Db 32302	CTGGTCTACAAATGTAGTTTCCAGGACAGCCAGGGCTATACAGAGAAACCTCTGTCGAAA	32243		
QY 4727	AACCAAGAAAACAAAACAAAACAAAACAAAACCAAACCCAAACCCAAACCTCTC	4786		
Db 32242	AACCAAAAAAAAAAAAAACCAACAAACAAAAAAAACGATAAACAAACCTATC	32183		
QY 4787	A 4787			
Db 32182	A 32182			

```

RESULT 13
US-10-367-094-142
; Sequence 142, Application US/10367094
; Publication No. US20040170982A1
; GENERAL INFORMATION:
; APPLICANT: David W. Morris
; APPLICANT: Marc Malandro
; TITLE OF INVENTION: Novel Therapeutic Targets in Cancer
; FILE REFERENCE: 529452001500
; CURRENT APPLICATION NUMBER: US/10/367,094
; CURRENT FILING DATE: 2003-02-14
; NUMBER OF SEQ ID NOS: 203
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 24495
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(24495)
; OTHER INFORMATION: n = A,T,C or G
US-10-367-094-142

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RESULT 14  
US-10-087-192-907  
; Sequence 907, Application US/10087192  
; Publication No. US20020182586A1

```

; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Engelhard, Eric K.
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
; TITLE OF INVENTION: CANCER
; FILE REFERENCE: 529452000122
; CURRENT APPLICATION NUMBER: US/10/087,192
; CURRENT FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: US 09/747,377
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/798,586
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 2059
; SOFTWARE: fastSEQ for Windows Version 4.0
; SEQ ID NO 907
; LENGTH: 31400
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(31400)
; OTHER INFORMATION: n = A,T,C or G
US-10-087-192-907

Query Match          1.7%; Score 155.6; DB 13; Length 31400;
Best Local Similarity 87.6%; Pred. No. 2.8e-31;
Matches 170; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

Qy      4587  AGCCACGACGTGTGGGCACACGCGCTTTAATCCAGACACTTGGGAGGCAGAAAGCAGGCAGA 4646
Db      294  AGCCAGGCGAGTGTGGGCACACGCGCTTTAATCCAGACACTTGGGAGGCAGAGGCGAGTGA 353

Qy      4647  TTTCTGAGTTCAAGGCCAGCGCTGGTCTATAGAGTGAGTTCCAGGACAGCCAGGGCTACAC 4706
Db      354  TTTCTGAGTTCGAGGCCAGCGCTGCTCTACAGAGTGAGTTCCAGGACAGCCAGGGCTACAC 413

Qy      4707  AGAAGAAACCGTGTTTTGAAAAACCGAAAAACAAAACAAAACAAAACAAAACAAAACAAAAC 4766
Db      414  AGAAGAAACCGTGTCTTGAAAAACCGAAAAACAAAACAAAACAAAACAAAACAAAACAAAAC 4766

Qy      4767  AACCCAAACCCAAA 4780
Db      474  GAATCATACATAAA 487

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RESULT 15
US-09-997-722-31
; Sequence 31, Application US/09997722
; Publication No. US20040072154A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David
; APPLICANT: Engelhard, Eric
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR CANCER
; FILE REFERENCE: A-71171/RMS/DCF
; CURRENT APPLICATION NUMBER: US/09/997,722
; CURRENT FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: US 09/747,377
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/798,586
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 301
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 31
; LENGTH: 94381
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2681)..(2700)
; OTHER INFORMATION: "n" at positions 2681 through 2700 can be any base
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (11224)..(11290)

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